

# Graduate Certificate in Neuroscience

The purpose of this certificate is to provide formal recognition to post baccalaureate students who are taking neuroscience courses and conducting research in neuroscience laboratories. This stand-alone certificate would allow post-baccalaureate students to have a specific, formal indication of their advanced studies and would be very beneficial to students who are considering applying to graduate degree programs or health sciences programs, such as medical or dental school.

## Requirements- Degree Seeking

For Graduate students pursuing a Graduate Degree Program in addition to this Certificate.

NEUROSCI 8440	Integrative Neuroscience 1	3
NEUROSCI 8442	Integrative Neuroscience II	3

Select two courses from one of the following groups

Cellular/Molecular Courses		
BIOL_EN 7070	Bioelectricity	3
BIO_SC 7002	Topics in Biological Sciences	3
BIO_SC 8450	Developmental Neurobiology	3
MPP 9421	Neural Pharmacology	1-3
MPP 9426	Transmembrane Signaling	4
MPP 9432	Mammalian Membrane Physiology	1-3
System/Behavior Courses:		
BIOL_EN 7560	Observing the Earth from Space	3
BIO_SC 7986	Neurology of Motor Systems	3
BIO_SC 7590	Computational Neuroscience	4
ECE 8570	Neural Dynamics and Communication	3
ECE 8580	Machine Learning in Neuroscience	3
PSYCH 7420	Personality Development	3
PSYCH 8210	Functional Neuroscience	3
PSYCH 9210	Psychopharmacology	3
PSYCH 9001	Topics in Psychology-General	3
V_BSCI 8100	Veterinary Neuroscience	2
V_BSCI 9467	Neural Cardiorespiratory Control	1-3
or MPP 9437	Neural Cardiorespiratory Control	

## Requirements- Stand-Alone Cert

For Post-baccalaureate students pursuing Certificate only.

NEUROSCI 8440	Integrative Neuroscience 1	3
NEUROSCI 8442	Integrative Neuroscience II	3
NEUROSCI 7990	Non-Thesis Research in Neuroscience	3

Select one course from the following two groups

BIOL_EN 7070	Bioelectricity	3
BIO_SC 7002	Topics in Biological Sciences	1-6
BIO_SC 8450	Developmental Neurobiology	3
MPP 9421	Neural Pharmacology	1-3
MPP 9426	Transmembrane Signaling	4
MPP 9432	Mammalian Membrane Physiology	1-3

System/Behavior Courses:

BIO_SC 7560	Sensory Physiology and Behavior	3
BIO_SC 7986	Neurology of Motor Systems	3

BIO_SC 7590	Computational Neuroscience	4
ECE 8570	Neural Dynamics and Communication	3
ECE 8580	Machine Learning in Neuroscience	3
PSYCH 8210	Functional Neuroscience	3
PSYCH 9210	Psychopharmacology	3
PSYCH 9001	Topics in Psychology-General	3
V_BSCI 8100	Veterinary Neuroscience	2
V_BSCI 9467	Neural Cardiorespiratory Control	1-3
or MPP 9437	Neural Cardiorespiratory Control	